# 2017-2 (BIG ENDIAN)

Eg. `INTEGER32 = 0000 000F` ; ADDRESS32 = 0080 000F

PAGE SIZE = 4 kbytes --> SPACE = 12 bits

ADDRESS32(00800 00F): `PageNumber=00800`    `PageOffset=00F`

Physical Address (PA) space = 44 bits.

Page Table Entry (PTE) start address PA: 0001 0000 000

| Page Number | PTE address | PTE | |
|---|---|---|---|
| 00000 | 0001 0000 000 | 00 02 00 00 | valid |
| 00001 | 0001 0000 004 | 00 02 00 01 | valid |
| 00002 | 0001 0000 008 | 00 02 00 02 | valid |
| 00003 | 0001 0000 00C | 00 02 00 03 | valid |
| ... | ... | ... | |
| 00007 | 0001 0000 01C | 00 02 00 07 | valid |
| ... | ... | ... | |
| 00400 | 0001 0001 000 | 00 02 04 00 | valid |
| ... | ... | ... | |
| 00800 | 0001 0002 000 | 00 02 08 00 | valid |
| ... | ... | ... | |

FrameNumber = `00020800` ; FrameOffset = `00F`

Physical Address = `0002 0800 00F`    `INTEGER32 = 0000 000F`

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0002 0800 00X | | | | | | | | | | | | | | | | 00 |
| 0002 0800 01X | 00 | 00 | 0F | | | | | | | | | | | | | |